

**IN THE CLAIMS:**

1. (Currently Amended) An implant for placement between vertebrae of a spine, wherein the implant has a shape adapted to a depression in vertebral surfaces facing the implant, wherein the implant has a height that increases from a ventral side to a dorsal side of the spine to a maximum height and then decreases again, and wherein the maximum height, viewed in a direction from the ventral side to the dorsal side of the spine, is located in a last third of a length of the implant.

Claims 2 and 3 (Canceled)

4. (Original) The implant in accordance with claim 1, wherein the implant has a height that increases towards the center axis in a direction perpendicular to a center axis passing through the spine from front to back.

5. (Original) The implant in accordance with claim 1, wherein the implant is symmetrically shaped with respect to a plane that perpendicularly intersects a longitudinal axis of the spine.

6. (Currently amended) The implant in accordance with claim

1, wherein the implant is configured to be placeable in a half-space of an intervertebral space together with another implant having ~~with~~ mirror symmetry with respect to the first implant.

7. (Currently Amended) The implant in accordance with claim 1, wherein the implant has projections arranged and configured to fix the implant in the bony tissue of the vertebrae.

8. (Original) The implant in accordance with claim 1, wherein the implant has an anterior end face, with respect to a direction of implantation, that has a convex curvature towards the front.

9. (Original) The implant in accordance with claim 1, wherein the implant has a hollow, cage-like configuration with wall openings.

10. (Original) The implant in accordance with claim 1, wherein the implant, as viewed from above, has a frame-like configuration with an opening in the frame that is open to an upper side and a lower side.

11. (Original) The implant in accordance with claim 1, wherein the implant consists of a plastic preferably PEEK.

12. (Original) The implant in accordance with claim 11,  
wherein the implant consists of PEEK.